

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently amended) A radio apparatus comprising
means for communicating on at least one radio frequency channel,
means for generating a clock signal at a frequency,
means for measuring interference arising from harmonic frequencies of the clock signal on the given radio channel, and
means for controlling the pulse width of the clock signal at the frequency on the basis of the measurement.
2. (Original) The radio apparatus of claim 1, comprising means for measuring the signal strength on the given radio channel and means for determining peaks in the signal strength.
3. (Currently amended) A radio apparatus arranged to communicate on at least one radio frequency channel, comprising
a clock signal generator,
an analog part and a digital part arranged to measure interference arising from harmonic frequencies of the clock signal on the given radio channel, and
a controller for controlling the pulse width of the clock signal while maintaining the clock signal frequency on the basis of the measurement.
4. (Original) The radio apparatus of claim 3, wherein an output of the controller is connected to the input of a digital-to-analog converter, which output controls the pulse width of the clock signal.

5. (Previously presented) The radio apparatus of claim 1, wherein the apparatus is arranged to control the pulse width of the clock signal whenever the apparatus begins communication on a given radio channel.

6. (Previously presented) The radio apparatus of claim 1, wherein the apparatus is arranged to communicate on a radio channel, using a predetermined frame structure and wherein the apparatus is arranged to control the pulse width of the clock signal on a frame-by-frame basis.

7. (Previously presented) The radio apparatus of claim 1, wherein the apparatus is a radio transceiver of a cellular radio system.

8. (Currently amended) An arrangement for reducing interference in a radio apparatus ~~comprising means for communicating~~that communicates on at least one radio frequency channel~~[[,]]~~ and ~~means for generating~~generates a clock signal at a frequency, the arrangement comprising:

~~means for measuring~~an analog part and a digital part arranged to measure interference arising from harmonic frequencies of the clock signal on the given radio channel, and

~~means~~a controller for controlling the pulse width of the clock signal at the frequency on the basis of the measurement.

9. (Currently amended) A method of reducing interference in a radio apparatus, the method comprising

generating a clock signal at a frequency;

measuring interference arising from harmonic frequencies of the clock signal on a given radio channel,

controlling the pulse width of the clock signal while maintaining the clock signal frequency on the basis of the measurement.

10. (Original) The method of claim 9, further comprising:
measuring the signal strength on the given radio channel;
determining peaks in the signal strength.
11. (Original) The method of claim 10, further comprising:
determining the peaks arising from the harmonic frequencies of the clock signal on a given radio channel,
controlling the pulse width of the clock signal to minimize said peaks.
12. (Currently amended) The method of claim 9, ~~comprising the step of performing wherein controlling the pulse width control~~includes controlling the pulse width on a given radio channel prior to starting communication on that channel.
13. (Original) The method of claim 9, wherein the radio apparatus communicates on a radio channel, using a given frame structure.
14. (Currently amended) The method of claim 13, ~~comprising the step of performing wherein controlling the pulse width control~~includes controlling the pulse width on a given radio channel prior to each frame used in the communication.
15. (Previously presented) The radio apparatus of claim 3, wherein the apparatus is arranged to control the pulse width of the clock signal whenever the apparatus begins communication on a given radio channel.
16. (Previously presented) The radio apparatus of claim 3, wherein the apparatus is arranged to communicate on a radio channel, using a predetermined frame structure and wherein the apparatus is arranged to control the pulse width of the clock signal on a frame-by-frame basis.

17. (Previously presented) The radio apparatus of claim 3, wherein the apparatus is a radio transceiver of a cellular radio system.